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DATE MAILED: 11/26/2001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/091,805	12/10/1998	TOSHIYUKI NAKATA	MATS:006	5347
75	590 11/26/2001			
ROSSI & ASSOCIATES			EXAMINER	
PO BOX 826 ASHBURN, V	A 20146-0826		NGUYEN, TU	TUYEN T
			ART UNIT	PAPER NUMBER
			2832	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/091,805 Applicant(s)

Examiner

Art Unit

Tuyen Nguyen 2832



Nakata et al.

	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address		
	for Reply			
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.			
af - If the	ter SIX (6) MONTHS from the mailing date of this communic e period for reply specified above is less than thirty (30) days	FR 1.136 (a). In no event, however, may a reply be timely filed ation. , a reply within the statutory minimum of thirty (30) days will		
- If NO	ommunication.	period will apply and will expire SIX (6) MONTHS from the mailing date of this statute, cause the application to become ABANDONED (35 U.S.C. § 133).		
- Any i		mailing date of this communication, even if timely filed, may reduce any		
Status				
1) 🗶	Responsive to communication(s) filed on Aug 29, 2	2001		
2a) 💢	This action is FINAL . 2b) ☐ This act	tion is non-final.		
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.			
Disposi	tion of Claims			
4) 💢	Claim(s) <u>1-9 and 11-41</u>	is/are pending in the application.		
4	la) Of the above, claim(s) <u>2, 6, 8, 9, 11, 12, 14-16,</u>	, 21-28, 30, and 32-39 is/are withdrawn from consideration.		
5) 🗆	Claim(s)	is/are allowed.		
6) 💢	Claim(s) 1, 3-5, 7, 13, 17-19, 29, 31, 40, and 41	is/are rejected.		
7) 💢	Claim(s) <u>20</u>	is/are objected to.		
8) 🗆	Claims	are subject to restriction and/or election requirement.		
Applica	ition Papers			
9) 🗆	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	objected to by the Examiner.		
11)	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disapproved.		
12)	The oath or declaration is objected to by the Exami	iner.		
Priority	under 35 U.S.C. § 119			
13)💢	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d).		
a) 🕽	$\langle\!\!\!/$ All b) \square Some* c) \square None of:			
	1. X Certified copies of the priority documents have	ve been received.		
	2. Certified copies of the priority documents have	re been received in Application No		
	 Copies of the certified copies of the priority description application from the International Bure the attached detailed Office action for a list of the 			
_	Acknowledgement is made of a claim for domestic	·		
	-			
Attachm		19) [] Interview Summary (DTO 412) December (1)		
15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948)		18) Interview Summery (PTO-413) Paper No(s) 19) Notice of Informal Patent Application (PTO-152)		
_	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1, 3, 4, 5, 7, 13, 29, and 31, are rejected under 35 U.S.C. 102(b) as being anticipated by applicant admitted prior art of figure 47.

The applicant admitted prior art of figure 47 discloses a choke coil comprising:

- a closing ferrite magnetic core including:
 - a first E-shaped magnetic core [10] having a center magnetic leg [7], outer magnetic legs [8], and a common magnetic yoke [9]; wherein the center magnetic leg has a circle cross section; and
 - a second E-shaped magnetic core [10] in contact with the first magnetic core.
- a magnetic gap provided between the center magnetic leg of the first magnetic core and the second magnetic core;
- a circle-shaped coreless coil [2] including a plate-type wire comprising a flat type wire [1], wherein the coreless coil is disposed around the center magnetic leg and separated therefrom by an insulating layer [11];

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- additional insulating layer [11] provided between the coreless coil and the closing magnetic

core; and

- inside and outside plate type terminals [5, 6] respectively coupled to inside and outside ends

[3, 4] of the plate-type coreless coil, wherein the terminals is led out side of the closing magnetic

core through an opening provided between the first and second magnetic core.

Claim Rejections - 35 USC § 103

3. Claims 17-19 and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over

applicant admitted prior art of figure 47 in view of Mitsui et al. [US 4,352,080].

The applicant admitted prior art of figure 47 discloses the instant claimed invention except

for specifics structure of the insulating layer cooperate with the common magnetic yoke of the

closing magnetic core.

Mitsui et al. discloses a ferrite core and bobbin structure for a choke coil comprising:

- a pair of E-shaped magnetic cores [10], wherein each of the magnetic core [10] comprising

a circular boss [12], a pair of outer walls [14, 16] and a pair tapered of base plates [18, 20] with a

notch [26] formed therebetween; and

- a bobbin [30] including a cylindrical pipe [30a] and a pair of flange [30b], wherein the

upper flange has a pair of walls [30b'] and the lower flange having a projection [30c] and a pair of

terminal base plate [30d], wherein the cylindrical pipe engages the circular boss of the magnetic core.

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It would have been obvious to one having ordinary skill in the art at the time the invention

was made to use core/bobbin design of Mitsui et al. in applicant admitted prior art of figure 47 for

the purpose of facilitating manufacturing of the device.

Regarding claims 40-41, the particular thicknesses of the first and second common yokes

would have been an obvious design consideration based on the desired inductance.

Allowable Subject Matter

4. Claim 20 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and any

intervening claims.

Response to Arguments

5. Applicant's arguments filed 8/29/01 have been fully considered but they are not persuasive.

Applicant argues that the admitted prior art does not teach leading the inside terminal out

outside of the closing magnetic core through a notch or a through hole in the common magnetic yoke

[37] so this essential claimed element is not shown in the admitted prior art.

The examiner disagrees. Applicant merely claims that the inside terminal is led outside said

closing magnetic core through an opening in the first common magnetic yoke. The admitted prior

art discloses such an opening. Applicant has not claimed, nor has examiner considered, that the

opening be a through hole in the common magnetic yoke.

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office

action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the

date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Mr. Michael Gellner, can be reached at (703)308-1721. The fax number for this Group is (703)305-

7724.

Any inquiry of a general nature or relating to the status of this application of proceeding

should be directed to the Group receptionist whose telephone number is (703)308-0956.

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November 12, 2001

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